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Automatic drug injector

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PCT No. PCT/FR95/00047 Sec. 371 Date Aug. 1, 1996 Sec. 102(e) Date Aug. 1, 1996 PCT Filed Jan. 16, 1995 PCT Pub. No. WO95/19194 PCT Pub. Date Jul. 20, 1995The injector has a reservoir containing a drug. The injector has a tubular body with a tubular wall, a plunger, a needle and a plunger rod. The tubular body also has two springs. The first spring is compressed from bearing on a part of the inner surface of the tubular body and on a piece that is connected to the plunger rod. The first spring pushes in the direction in which the needle protrudes. The second spring acts in the opposite direction of the first spring. The second spring is compressed by bearing on a part of the inner surface of the injector body and on a ring. The force exerted by the second spring is greater than that exerted by the first spring. The ring is slidably mounted and is capable of entraining the reservoir in the direction of the retraction of the needle. The ring is blocked by a movable abutment. The plunger rod cooperates with the movable abutment to release the second spring and cause the retraction of the needle.

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